

## DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: HIGH PERFORMANCE RISC-DSP the specification of which ☐ is attached and/or ☒ was filed on August 11, 2000 as United States Application Serial No. 09/637,500 or PCT International Application No. \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate or § 365(a) of any PCT international application(s) designating at least one country other than the United States, listed below and have also identified below, any foreign application(s) for patent or inventor's certificate, or any PCT International application(s) having a filing date before that of the application(s) of which priority is claimed:

Country	Application Number	Date of Filing	Priority Claimed Under 35 U.S.C. 119
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Application Number	Date of Filing

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or § 365(c) of any PCT International application(s) designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application(s) and the national or PCT International filing date of this application:

Application Number	Date of Filing	Status (Patented, Pending, Abandoned)

I hereby appoint the following attorney and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P., Douglas B. Henderson, Reg. No. 20,291; Ford F. Farabow, Jr., Reg. No. 20,630; Arthur S. Garrett, Reg. No. 20,338; Donald R. Dunner, Reg. No. 19,073; Brian G. Brunsvold, Reg. No. 22,593; Tipton D. Jennings, IV, Reg. No. 20,645; Jerry D. Voight, Reg. No. 23,020; Laurence R. Hefter, Reg. No. 20,827; Kenneth E. Payne, Reg. No. 23,098; Herbert H. Mintz, Reg. No. 26,691; C. Larry O'Rourke, Reg. No. 26,014; Albert J. Santorelli, Reg. No. 22,610; Michael C. Elmer, Reg. No. 25,857; Richard H. Smith, Reg. No. 20,609; Stephen L. Peterson, Reg. No. 26,325; John M. Romary, Reg. No. 26,331; Bruce C. Zotter, Reg. No. 27,680; Dennis P. O'Reilly, Reg. No. 27,932; Allen M. Sokal, Reg. No. 26,695; Robert D. Bajefsky, Reg. No. 25,387; Richard L. Stroup, Reg. No. 28,478; David W. Hill, Reg. No. 28,220; Thomas L. Irving, Reg. No. 28,619; Charles E. Lipsey, Reg. No. 28,165; Thomas W. Winland, Reg. No. 27,605; Basil J. Lewis, Reg. No. 28,818; Martin I. Fuchs, Reg. No. 28,508; E. Robert Yoches, Reg. No. 30,120; Barry W. Graham, Reg. No. 29,924; Susan Haberman Griffen, Reg. No. 30,907; Richard B. Racine, Reg. No. 30,415; Thomas H. Jenkins, Reg. No. 30,857; Robert E. Converse, Jr., Reg. No. 27,432; Clair X. Mullen, Jr., Reg. No. 20,348; Christopher P. Foley, Reg. No. 31,354; John C. Paul, Reg. No. 30,413; Roger D. Taylor, Reg. No. 28,992; David M. Kelly, Reg. No. 30,953; Kenneth J. Meyers, Reg. No. 25,146; Carol P. Einaudi, Reg. No. 32,220; Walter Y. Boyd, Jr., Reg. No. 31,738; Steven M. Anzalone, Reg. No. 32,095; Jean B. Fordis, Reg. No. 32,984; Barbara C. McCurdy, Reg. No. 32,120; James K. Hammond, Reg. No. 31,964; Richard V. Burgujian, Reg. No. 31,744; J. Michael Jakes, Reg. No. 32,824; Thomas W. Banks, Reg. No. 32,719; Christopher P. Isaac, Reg. No. 32,616; Bryan C. Diner, Reg. No. 32,409; M. Paul Barker, Reg. No. 32,013; Andrew Chanhon Sonu, Reg. No. 33,457; David S. Forman, Reg. No. 33,694; Vincent P. Kovalick, Reg. No. 32,867; James W. Edmondson, Reg. No. 33,871; Michael R. McGurk, Reg. No. 32,045; Joann M. Neth, Reg. No. 36,363; Gerson S. Panitch, Reg. No. 33,751; Cheri M. Taylor, Reg. No. 33,216; Charles E. Van Horn, Reg. No. 40,266; Linda A. Wadler, Reg. No. 33,218; Jeffrey A. Berkowitz, Reg. No. 36,743; Michael R. Kelly, Reg. No. 33,921; James B. Monroe, Reg. No. 33,971; Doris Johnson Hines, Reg. No. 34,629; Allen R. Jensen, Reg. No. 28,224; Lori Ann Johnson, Reg. No. 34,498; and David A. Manspeizer, Reg. No. 37,540 and \_\_\_\_\_. Please address all correspondence to FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. 1300 I Street, N.W., Washington, D.C. 20005, Telephone No. (202) 408-4000.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full Name of First Inventor Robert Gelinas	Inventor's Signature <i>Robert Gelinas</i>	Date Nov 2, 2000
Residence 12 Oakland Avenue, Needham, MA 02492		Citizenship USA
Post Office Address		

Listing of Inventors Continued From Page 1 hereof.

Attorney Docket No. 07030.0011-00

Full Name of Second Inventor W. Patrick Hays	Inventor's Signature <i>W. Patrick Hays</i>	Date 10/26/00
Residence 20 Garfield Street, Cambridge, MA 02138		Citizenship USA
Post Office Address		
Full Name of Third Inventor Sol Katzman	Inventor's Signature <i>Sol Katzman</i>	Date 10/26/00
Residence 207 Temple Road, Waltham, MA 02452		Citizenship USA
Post Office Address		
Full Name of Fourth Inventor William J. Dally	Inventor's Signature	Date
Residence 1068 Vernier Place, Stanford, CA		Citizenship USA
Post Office Address		
Full Name of Fifth Inventor Staffan Ericson	Inventor's Signature	Date
Residence		Citizenship
Post Office Address		
Full Name of Sixth Inventor	Inventor's Signature	Date
Residence		Citizenship
Post Office Address		
Full Name of Seventh Inventor	Inventor's Signature	Date
Residence		Citizenship
Post Office Address		
Full Name of Eighth Inventor	Inventor's Signature	Date
Residence		Citizenship
Post Office Address		
Full Name of Ninth Inventor	Inventor's Signature	Date
Residence		Citizenship
Post Office Address		

Listing of Inventors Continued on Page 2 hereof. ☒ Yes ☐ No

January 2000

FINNEGAN, HENDERSON, FARABOW, GARRETT &amp; DUNNER, L.L.P.

SOLE/JOINT INVENTION  
(Worldwide Rights)

## ASSIGNMENT

WHEREAS We, the below named inventors, hereinafter referred to as Assignors, have made an invention entitled:

## HIGH PERFORMANCE RISC-DSP

for which We executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on August 11, 2000, Serial No. 09/637,500; and

WHEREAS, LEXRA COMPUTING ENGINES, a corporation of Massachusetts whose post office address is 51 Sawyer Road, Suite 110, University Park, Waltham, Massachusetts 02154 hereinafter referred to as Assignee, is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, provisional application Serial No. 60/148652, filed August 13, 1999, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

County of NORFOLKState of MASSACHUSETTS

ss.

Robert Gelinas  
12 Oakland Avenue, Needham, MA 02492Signature: Robert Gelinas  
Date: 10/26/2000Subscribed and sworn to before me this 21 day of Nov., 2000.  
Robert Gelinas Notary Public

County of \_\_\_\_\_

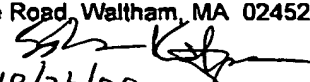
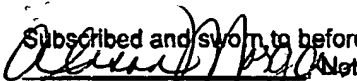
State of Massachusetts

ss.

W. Patrick Hays  
20 Garfield Street, Cambridge, MA 02138Signature: W. Patrick Hays  
Date: 10/26/2000Subscribed and sworn to before me this 27 day of Nov., 2000.  
W. Patrick Hays Notary Public

SOLE/JOINT INVENTION  
(Worldwide Rights)County of MIDDLESEX  
State of MASSACHUSETTS

ss.

Sol Katzman  
207 Temple Road, Waltham, MA 02452  
Signature:   
Date: 10/26/00Subscribed and sworn to before me this 21 day of Nov., 2000.  
 Notary PublicCounty of \_\_\_\_\_  
State of \_\_\_\_\_

ss.

William J. Dally  
1068 Vernier Place, Stanford, CA 02138  
Signature:  
Date:Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2000.  
\_\_\_\_\_, Notary PublicCounty of \_\_\_\_\_  
State of \_\_\_\_\_

ss.

Staffan Ericson  
Signature:  
Date:Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2000.  
\_\_\_\_\_, Notary Public

## DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that my residence, post office address and citizenship are listed below next to my name; I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: HIGH PERFORMANCE RISC-DSP

the specification of which ☐ is attached and/or ☒ was filed on August 11, 2000 as United States Application Serial No. 09/637,500 or PCT International Application No. \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full Name of First Inventor Robert Gelinas	Inventor's Signature <i>Robert Gelinas</i>	Date Nov 2, 2000
Residence 12 Oakland Avenue, Needham, MA 02492		Citizenship USA
Post Office Address		

Listing of Inventors Continued on Page 2 hereof. ☒ Yes ☐ No

January 2000

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Full Name of Second Inventor W. Patrick Hays	Inventor's Signature <i>W. Patrick Hays</i>	Date 10/26/00
Residence 20 Garfield Street, Cambridge, MA 02138		Citizenship USA
Post Office Address		
Full Name of Third Inventor Sol Katzman	Inventor's Signature <i>Sol Katzman</i>	Date 10/26/00
Residence 207 Temple Road, Waltham, MA 02452		Citizenship USA
Post Office Address		
Full Name of Fourth Inventor William J. Dally	Inventor's Signature	Date
Residence 1068 Vernier Place, Stanford, CA		Citizenship USA
Post Office Address		
Full Name of Fifth Inventor Staffan Ericsson <i>ERICSSON</i>	Inventor's Signature <i>Staffan Ericsson</i>	Date 10/27/00
Residence 79 CARLTON STREET, BROOKLINE, MA 02446		Citizenship Sweden
Post Office Address		
Full Name of Sixth Inventor	Inventor's Signature	Date
Residence		Citizenship
Post Office Address		
Full Name of Seventh Inventor	Inventor's Signature	Date
Residence		Citizenship
Post Office Address		
Full Name of Eighth Inventor	Inventor's Signature	Date
Residence		Citizenship
Post Office Address		
Full Name of Ninth Inventor	Inventor's Signature	Date
Residence		Citizenship
Post Office Address		

SOL

Bill Dally

Staffan

SOLE/JOINT INVENTION  
(Worldwide Rights)

## ASSIGNMENT

WHEREAS We, the below named inventors, hereinafter referred to as Assignors, have made an invention entitled:

## HIGH PERFORMANCE RISC-DSP

for which We executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on August 11, 2000, Serial No. 09/637,500; and

WHEREAS, LEXRA COMPUTING ENGINES, a corporation of Massachusetts whose post office address is 51 Sawyer Road, Suite 110, University Park, Waltham, Massachusetts 02154 hereinafter referred to as Assignee, is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, provisional application Serial No. 60/148652, filed August 13, 1999, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

County of NORFOLK )  
State of MASSACHUSETTS )

ss.

Robert Gelinas  
12 Oakland Avenue, Needham, MA 02492  
Signature: Robert Gelinas  
Date: 10/26/2000

Bob G

Subscribed and sworn to before me this \_\_\_\_ day of \_\_\_\_\_, 2000.  
\_\_\_\_\_, Notary PublicCounty of \_\_\_\_\_ )  
State of Massachusetts )

ss.

W. Patrick Hays  
20 Garfield Street, Cambridge, MA 02138  
Signature: W. Patrick Hays  
Date: 10/26/2000

Pat

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\_\_\_\_\_, Notary Public

SOLE/JOINT INVENTION  
(Worldwide Rights)

County of MIDDLESEX  
State of MASSACHUSETTS

ss.

Sol Katzman  
207 Temple Road, Waltham, MA 02452  
Signature: [Signature]  
Date: 10/26/00

Sol

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2000.  
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County of \_\_\_\_\_  
State of \_\_\_\_\_

ss.

William J. Dally  
1068 Vernier Place, Stanford, CA 02138  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_

Dally

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2000.  
\_\_\_\_\_, Notary Public

County of Norfolk  
State of Massachusetts

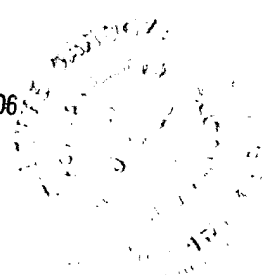
ss.

Staffan Ericsson ERICSSON  
Signature: [Signature]  
Date: 10/27/00

Staff

Subscribed and sworn to before me this 3 day of November, 2000.  
[Signature], Notary Public

LISEtte CARDOZA  
Notary Public  
My Commission Expires Feb. 17, 2006





## DECLARATION AND POWER OF ATTORNEY

as a below named inventor, I hereby declare that: Residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: HIGH PERFORMANCE RISC-DSP the specification of which ☐ is attached and/or ☒ was filed on August 11, 2000 as United States Application Serial No. 09/637,500 or PCT International Application No. \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

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I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or § 365(c) of any PCT International application(s) designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application(s) and the national or PCT International filing date of this application:

Application Number	Date of Filing	Status (Patented, Pending, Abandoned)

I hereby appoint the following attorney and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P., Douglas B. Henderson, Reg. No. 20,291; Ford F. Farabow, Jr., Reg. No. 20,630; Arthur S. Garrett, Reg. No. 20,338; Donald R. Dunner, Reg. No. 19,073; Brian G. Brunsvold, Reg. No. 22,593; Tipton D. Jennings, IV, Reg. No. 20,645; Jerry D. Voight, Reg. No. 23,020; Laurence R. Hefter, Reg. No. 20,827; Kenneth E. Payne, Reg. No. 23,098; Herbert H. Mintz, Reg. No. 26,691; C. Larry O'Rourke, Reg. No. 26,014; Albert J. Santorelli, Reg. No. 22,610; Michael C. Elmer, Reg. No. 25,857; Richard H. Smith, Reg. No. 20,609; Stephen L. Peterson, Reg. No. 26,325; John M. Romary, Reg. No. 26,331; Bruce C. Zotter, Reg. No. 27,680; Dennis P. O'Reilly, Reg. No. 27,932; Allen M. Sokal, Reg. No. 26,695; Robert D. Bajefsky, Reg. No. 25,387; Richard L. Stroup, Reg. No. 28,478; David W. Hill, Reg. No. 28,220; Thomas L. Irving, Reg. No. 28,619; Charles E. Lipsey, Reg. No. 28,165; Thomas W. Winland, Reg. No. 27,605; Basil J. Lewis, Reg. No. 28,818; Martin I. Fuchs, Reg. No. 28,508; E. Robert Yoches, Reg. No. 30,120; Barry W. Graham, Reg. No. 29,924; Susan Haberman Griffen, Reg. No. 30,907; Richard B. Racine, Reg. No. 30,415; Thomas H. Jenkins, Reg. No. 30,857; Robert E. Converse, Jr., Reg. No. 27,432; Clair X. Mullen, Jr., Reg. No. 20,348; Christopher P. Foley, Reg. No. 31,354; John C. Paul, Reg. No. 30,413; Roger D. Taylor, Reg. No. 28,992; David M. Kelly, Reg. No. 30,953; Kenneth J. Meyers, Reg. No. 25,146; Carol P. Einaudi, Reg. No. 32,220; Walter Y. Boyd, Jr., Reg. No. 31,738; Steven M. Anzalone, Reg. No. 32,095; Jean B. Fordis, Reg. No. 32,984; Barbara C. McCurdy, Reg. No. 32,120; James K. Hammond, Reg. No. 31,964; Richard V. Burgulian, Reg. No. 31,744; J. Michael Jakes, Reg. No. 32,824; Thomas W. Banks, Reg. No. 32,719; Christopher P. Isaac, Reg. No. 32,616; Bryan C. Diner, Reg. No. 32,409; M. Paul Barker, Reg. No. 32,013; Andrew Chanho Sonu, Reg. No. 33,457; David S. Forman, Reg. No. 33,694; Vincent P. Kovalick, Reg. No. 32,867; James W. Edmondson, Reg. No. 33,871; Michael R. McGurk, Reg. No. 32,045; Joann M. Neth, Reg. No. 36,363; Gerson S. Panitch, Reg. No. 33,751; Cheri M. Taylor, Reg. No. 33,216; Charles E. Van Horn, Reg. No. 40,266; Linda A. Wadler, Reg. No. 33,218; Jeffrey A. Berkowitz, Reg. No. 36,743; Michael R. Kelly, Reg. No. 33,921; James B. Monroe, Reg. No. 33,971; Doris Johnson Hines, Reg. No. 34,629; Allen R. Jensen, Reg. No. 28,224; Lori Ann Johnson, Reg. No. 34,498; and David A. Manspeizer, Reg. No. 37,540 and \_\_\_\_\_.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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Listing of Inventors Continued on Page 2 hereof. ☒ Yes ☐ No

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

January 2000

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Full Name of Fourth Inventor William J. Dally	Inventor's Signature <i>William J. Dally</i>	Date 11/6/2000
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Full Name of Fifth Inventor Staffan Ericson	Inventor's Signature	Date
Residence		Citizenship
Post Office Address		
Full Name of Sixth Inventor	Inventor's Signature	Date
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Full Name of Seventh Inventor	Inventor's Signature	Date
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Full Name of Eighth Inventor	Inventor's Signature	Date
Residence		Citizenship
Post Office Address		
Full Name of Ninth Inventor	Inventor's Signature	Date
Residence		Citizenship
Post Office Address		

SOL

Bill Dally

Staffan

SOLE/JOINT INVENTION  
(Worldwide Rights)

## ASSIGNMENT

WHEREAS We, the below named inventors, hereinafter referred to as Assignors, have made an invention entitled:

### HIGH PERFORMANCE RISC-DSP

for which We executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on August 11, 2000, Serial No. 09/637,500; and

WHEREAS, LEXRA COMPUTING ENGINES, a corporation of Massachusetts whose post office address is 51 Sawyer Road, Suite 110, University Park, Waltham, Massachusetts 02154 hereinafter referred to as Assignee, is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, provisional application Serial No. 60/148652, filed August 13, 1999, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

County of NORFOLK )  
State of MASSACHUSETTS )

ss.

Robert Gelinas  
12 Oakland Avenue, Needham, MA 02492  
Signature: *Robert Gelinas*  
Date: *10/26/2000*

*Bob G*

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2000.  
\_\_\_\_\_, Notary Public

County of \_\_\_\_\_ )  
State of Massachusetts )

ss.

W. Patrick Hays  
20 Garfield Street, Cambridge, MA 02138  
Signature: *W. Patrick Hays*  
Date: *10/26/2000*

*Pat*

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2000.  
\_\_\_\_\_, Notary Public

SOLE/JOINT INVENTION  
(Worldwide Rights)

County of MIDDLESEX  
State of MASSACHUSETTS

ss.

Sol Katzman  
207 Temple Road, Waltham, MA 02452  
Signature: [Signature]  
Date: 10/26/00

Sol

Subscribed and sworn to before me this 16<sup>th</sup> day of November, 2000.  
Shelley Russell, Notary Public

County of Santa Clara  
State of California

ss.

William J. Dally  
1068 Vernier Place, Stanford, CA 94313  
Signature: [Signature]  
Date: 11/6/2000

Dally

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2000.  
\_\_\_\_\_, Notary Public

County of \_\_\_\_\_  
State of \_\_\_\_\_

ss.

Staffan Ericson  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_

Steff

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 2000.  
\_\_\_\_\_, Notary Public

